

DEP-3

SERVICE NOTES *First Edition*

SPECIFICATIONS

Input Level/Impedance
+4dBm/47k Ω
-20dBm/47k Ω

Stereo Output Level/Impedance
+4dBm: (+18dBm max.)/600 Ω
-20dBm (-5dBm max.)/600 Ω

A/D-D/A Conversion
16 bit Linear

Sampling Frequency
32kHz

Frequency Response
10Hz to 50kHz +0
-3 dB (Direct)
30Hz to 12kHz +1
-3 dB (Reverb)

SN Ratio (IHF A at Rated Input)
82dB (Direct)
76dB (Reverb)

Dynamic Range
Over 94dB (Direct)
Over 86dB (Reverb)

Total Harmonic Distortion
(at 1kHz, Rated Input)
Below 0.02% (Direct)
Below 0.08% (Reverb)

Pre-delay Time
0 to 120ms (Reverb Mode)
0 to 120ms (Non-linear Mode)

Reverb Time
0.1 to 99s (Reverb Mode)
0.1 to 10s (Non-linear Mode)

HF Damp Control
x0.05 to x1.0

Gate Time
10 to 450ms

Delay Time
2 to 500ms

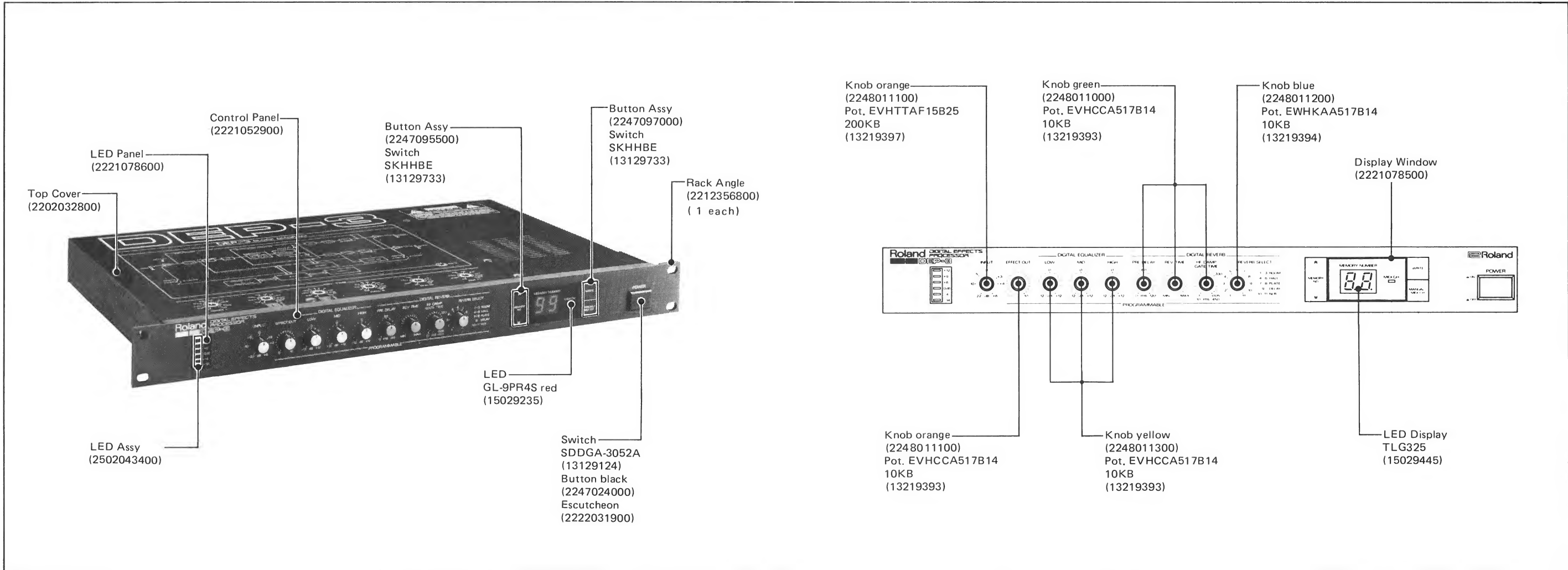
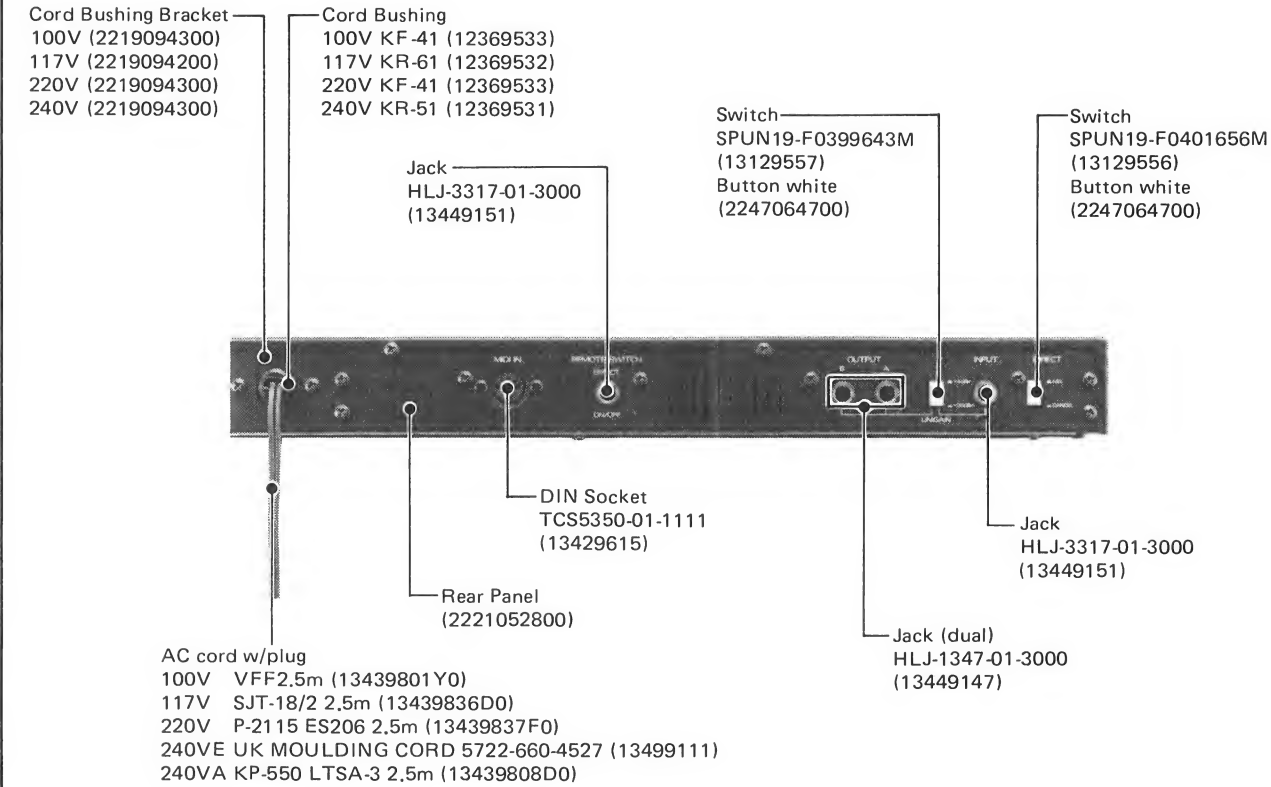
Reverb
Room : 1.0 to 15 (3 steps)
Hall : 15 to 26 (3 steps)
Plate : A and B

Equalizer
Low : Frequency 100Hz
Boost/Cut \pm 12dB
Mid : Frequency 1kHz
Boost/Cut \pm 12dB
High : Frequency 10kHz
Boost/Cut \pm 12dB

Power Consumption
15W

Dimensions
482 (W) x 47 (H) x 289 (D) mm
19 (W) x 1-7/8 (H) x 11-3/8 (D) in.

Weight
3.5 kg/7 lb. 12 oz.



PARTS LIST

CASING

2202032800	Top Cover	
2202032900	Bottom Cover	
2221052900	Control Panel	
2221052800	Rear Panel	
2212356800	Rack Angle	
2221078500	Display Window	
2221078600	LED Panel (Level Meter Window)	
2281056400	Front Chassis	
2281056500	Power Transformer Chassis	
2281056700	Side Chassis left	
2281056600	Side Chassis right	
2246049600	Heat Sink	
2235031300	Foot(square mat)	
2222031900	Escutcheon	

KNOB, BUTTON

2248011000	Knob 8mm dia green	
2248011100	Knob 8mm dia orange	
2248011200	Knob 8mm dia blue	
2248011300	Knob 8mm dia yellow	
2247024000	Button black	POWER
2247064700	Button white	UNIGAIN, DIRECT
2247095500	Button Assy	MEMORY NUMBER
2247097000	Button Assy	WRITE, MANUAL/MIDI CH

SWITCH

13129124	SDDGA-3052A	POWER
13129556	SPUN19-F0401656M	DIRECT
13129557	SPUN19-F0399643M	UNIGAIN
13129733	SKHHBE	switch board

JACK, SOCKET

13449147	HLJ-1347-01-3000	dual
13449151	HLJ-3317-01-3000	
13429615	DIN Socket TCS5350-01-1111	single
13429531	DICF-T28AS-E	IC Socket 28P

POWER TRANSFORMER

22450472N0	100V
22450473C0	117V
22450474D0	220V
22450475A0	240V

COIL

12449229M1	FK08160MH15	
12449284	LPF 12KHz 6M-606	
12399501M1	BL02RN2-R62	inductor
13529105M1	DSS310-550223S	EMI Filter
13529120M1	BNP002-02	EMI Filter

PCB

7413840000	Main Board	(pcb 2292040300)
7413844000	Switch Board	(pcb 2292040400)
7413845100	Power Supply Board 100V	(pcb 2292045700)
7413845300	Power Supply Board 117V	(pcb 2292045700)
7413845400	Power Supply Board 220V, 240V	(pcb 2292045700)
For LED Meter see LED section .		

POTENTIOMETER

13219397	EVHTTAF15B25	200KB
13219393	EVHCCA517B14	10KB
13219394	EWHKAA517B14	10KB
13299115	H1051A015-22KB	trimmer
13299197	EVND4AA00B15	trimmer

IC

15179256	μPD78C10G	CPU (external ROM version)
15179828	MBM27C128-20	EP ROM
15179263	μPD78C14G	CPU (w /built-in ROM)
Substituting 14G type to 10G makes EP ROM idle.		
14G917*を使用した場合、EP ROM は不用となる		
15149121	M54522P	transistor array
15159503	TC40H000P	(40H only) quad NAND gate
15159540	TC74HC373P	(74HC only) octal D-F/F
15169517	74F04	(F type only) hex inverter
15179373	μPD446C-2L	S RAM
15179376	MB81416-10	D RAM
15189111J1	NJM-311D	Comparator
15189129	TL072	OP amp
15189132	NJM-4556D	OP amp
15189186	μPC4570C	OP amp
15199147	M5F7815	voltage regulator
15199148	M5F7915	voltage regulator
15199149	M5F7805	voltage regulator
15219116	IR-2E02	LED driver
15219176	NJU-7301D	analog switch
15219178	PCM-54HP-S	D/A converter
15229712	PC900	opto- isolator
15229859	MB87126A-007	Roland custom IC (reverb)

TRANSISTOR

15119125	2SA-1115-28-F
15129130	2SC-1583F
15129136	2SC-2878-A
15129137	2SC-2603-28-F
15129171	DTC-114ES SPT (w /built-in bias resistors)

DIODE

15019124	1S-188FM1-UB4	
15019125	1SS-133	
15019251	1N-4007	
15019270	10DF1	
15019275	3B4B41	bridge rectifier
15019404	MTZ6.2B	zener

LED

15029445	TLG325	dual 7-seg
15029235	GL-9PR4S	red
2502043400	LED ASSY	level meter

FUSE

12559532	CEE T630 mA	100V
12559413	SD6 630 mA	117V
12559509	CEE T315 mA	220V, 240V

AC CORD

13439801Y0	VFF 2.5m	100V
13439836D0	SJT-18/2 2.5m	117V
13439837F0	P-2115 ES-206 2.5m	220V
13499111	UK MOULDING CORD 5722-660-4527	240VE(England)
13439808D0	KP-550 LTSA-3 2.5m	240VA(Australian)

RESISTOR

13819167	1/2w 56 ohm
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CAPACITOR

13529104	DE7150F472MVA1 4700pF	line bypass
13619302N0	4.7uF/16V tantalium	
13619908N0	10uF/6.3V tantalium	
13659271	16x25 3300uF/16V	electro
13659272	23x25 2200uF/35V	electro

CRYSTAL

12389765	TQC-226A-6R 12MHz
12389764	HC49U 40.96 MHz KD6

CONNECTOR

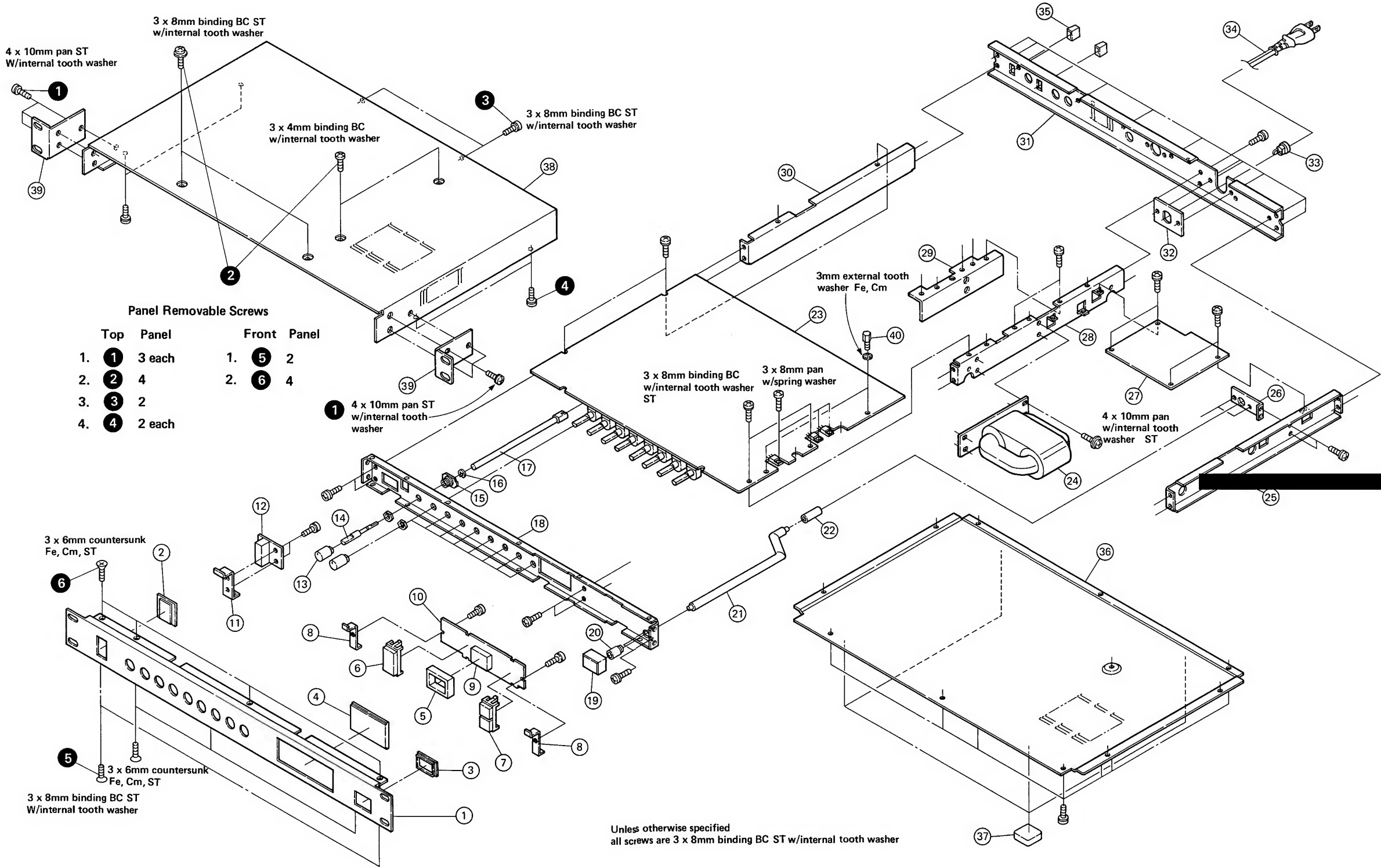
13459510	WE-2 wrapping terminal	2p
13459508	WE-3 wrapping terminal	3p
13439123	MOLEX wafer assy 5045-07A	7p
13439125	MOLEX wafer assy 5045-09A	9p
2341043400	9P Connector w /wiring	

MISCELLANEOUS

12199552	Fuse Holder UF0005-02	
12369533	Cord Bushing	100V, 220V
12369532	Cord Bushing	117V
12369531	Cord Bushing	240V
2219094300	Cord Bushing Bracket	100V, 220V, 240V
2219094200	Cord Bushing Bracket	117V
12569311	M2C-C200	Lithium Battery
12149323	EWK81A037	extension shaft,coupling
2219075700	Bracket	main board
2219092300	Switch Board Bracket	
2219092200	LED Board Bracket	
2219086100	Power Switch Bracket	
12169334	LED-0500	LED spacer MIDI CH
2226023601	Cushion	display -PCB
2226023500	Cushion	display window - display
2225024500	Shield plate	main board
2225024600	Shield plate	main board
2214020700	Extension Shaft	POWER
2215040100	Sleeve	POWER
2215040200	Coupling	POWER
2215040900	Extension Shaft	Pot
2215057500	Boss nut #215-575	main board

EXPLODED VIEW 分解図

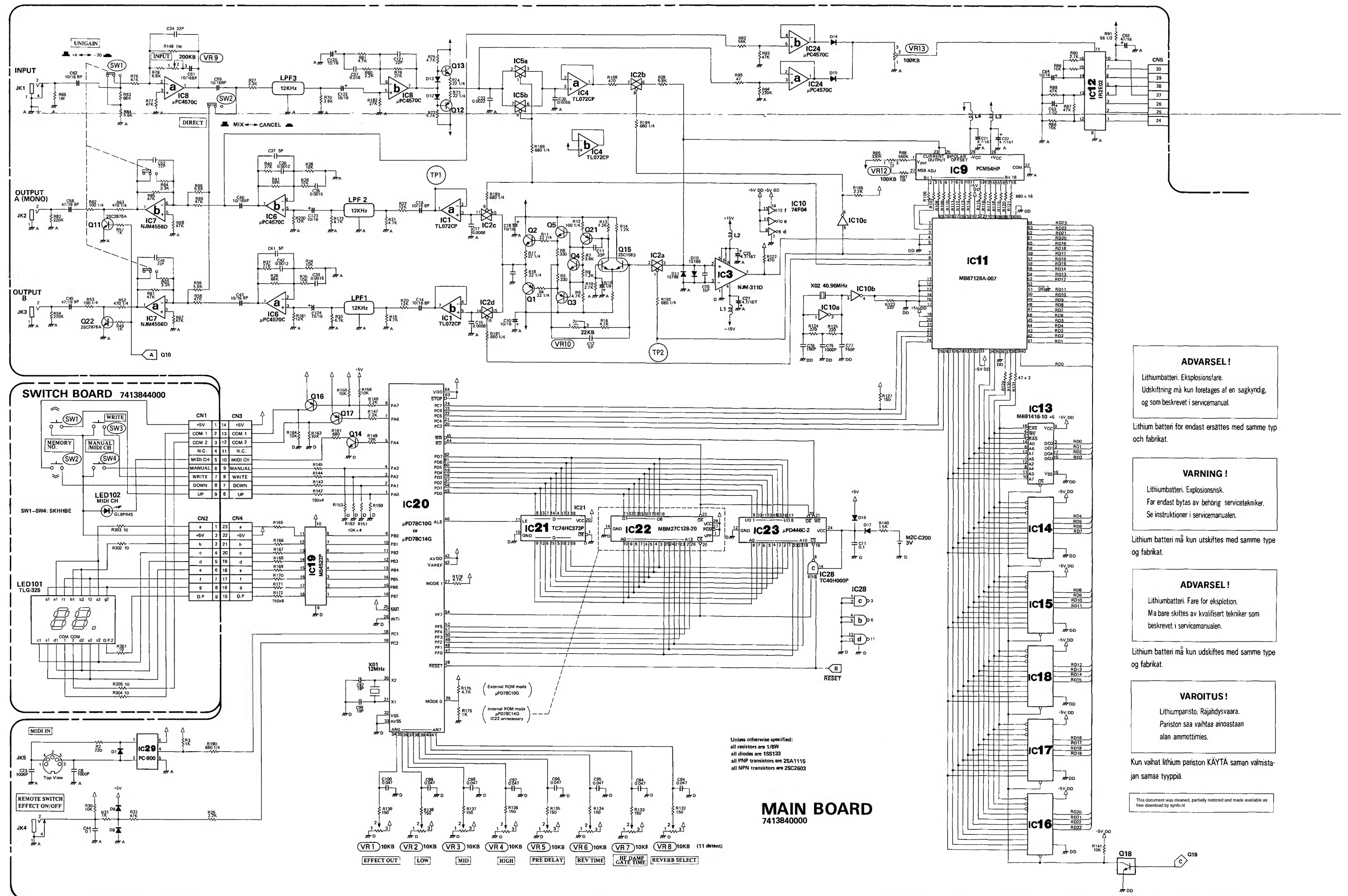
1	Control Panel	コントロールパネル	(2221052900)	14	Extension Shaft, Coupling EWK81A037 延長シャフト,カップリング	(12149323)	30	Side Chassis (L)	サイドシャーシ(L)	(2281056700)
2	LED Panel (Level Meter Window)	LEDパネル	(2221078600)	15	Extension Shaft, Coupling EWK81A037 延長シャフト,カップリング	(12149323)	31	Rear Panel	リアパネル	(2221052800)
3	Escutcheon	エスカッション	(2222031900)	16	Extension Shaft, Coupling EWK81A037 延長シャフト,カップリング	(12149323)	32	Cord Bushing Bracket 100/220/240V 117V	コードブッシュホルダ100/220/240V 117V	(2219094300)
4	Display Window	表示器パネル	(2221078500)	17	Extension Shaft	(2215040900)	33	Cord Bushing 100/220V 117V	コードブッシュ100/220V 117V	(2219094200)
5	Cushion	クッション	(2226023500)	18	Front Chassis	(2281056400)	34	AC Cord 100V 117V 240V 240VE 240VA	ACコード100V 117V 240V 240VE 240VA	(12369533)
6	Button Assy blk	ボタン完成品	(2247095500)	19	Button black	(2247024000)	35	Button white	ボタン白	(2247064700)
7	Button Assy blk	ボタン完成品	(2247097000)	20	Sleeve	(2215040100)	36	Bottom Cover	ボトムカバー	(2202032900)
8	Switch Bracket	スイッチボードホルダ	(2219092300)	21	Extension Shaft	(2214020700)	37	Rubber Foot	ゴム足	(2235031300)
9	LED Display TLG325	LED表示器 TLG325	(15029445)	22	Coupling	(2215040200)	38	Top Cover	トップカバー	(2202032800)
10	Switch Board	スイッチ基板	(7413844000)	23	Main Board	(7413840000)	39	Rack Angle	ラックアングル	(2212356800)
11	LED Board Bracket	LEDボードホルダ	(2219092200)	24	Power Transformer 100V 117V 220V 240V	(22450472N0)	40	Boss nut #215-575	ボスナット	(2215057500)
12	LED Assy (Level Meter)	レベルLED完成品	(2502043400)	25	Side Chassis (R)	(2281056600)				
13	Knob 8mm dia. green orange blue yellow	ツマミ 緑 橙 青 黄	(2248011000) (2248011100) (2248011200) (2248011300)	26	Power Switch Bracket	(2219086100)				
				27	Power Supply Board	(7413855000)				
				28	Power Transformer Chassis	(2281056500)				
				29	Heat Sink	(2246049600)				



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 41 42 43 44 45 46 47

CIRCUIT DIAGRAM

See P.7 for replaced LPFs 1, 2 and 3. LPF1,2および3についてはP.7の変更案内参照。



ADVARSEL!

Lithiumbatteri. Eksplosionsfare.
Udskiftning må kun foretages af en sagkyndig,
og som beskrevet i servicemanual.

Lithium batten for endast ersættes med samme type
og fabrikat.

VARNING!

Lithiumbatteri. Eksplosionsrisk.
Far endast bytas av behörig servicetekniker.
Se instruktioner i servicemanualen.

Lithium batteri må kun udskiftes med samme type
og fabrikat.

ADVARSEL!

Lithiumbatteri. Fare for eksplosion.
Ma bare skiftes av kvalifisert tekniker som
beskrevet i servicemanualen.

Lithium batteri må kun udskiftes med samme type
og fabrikat.

VAROITUS!

Lithiumparisto. Rajahdysvaara.
Pariston saa vaihtaa ainoastaan
alan ammattimies.

Kun vaihat lithium pariston KÄYTÄ saman valmista-
jan samaa tyyppiä.

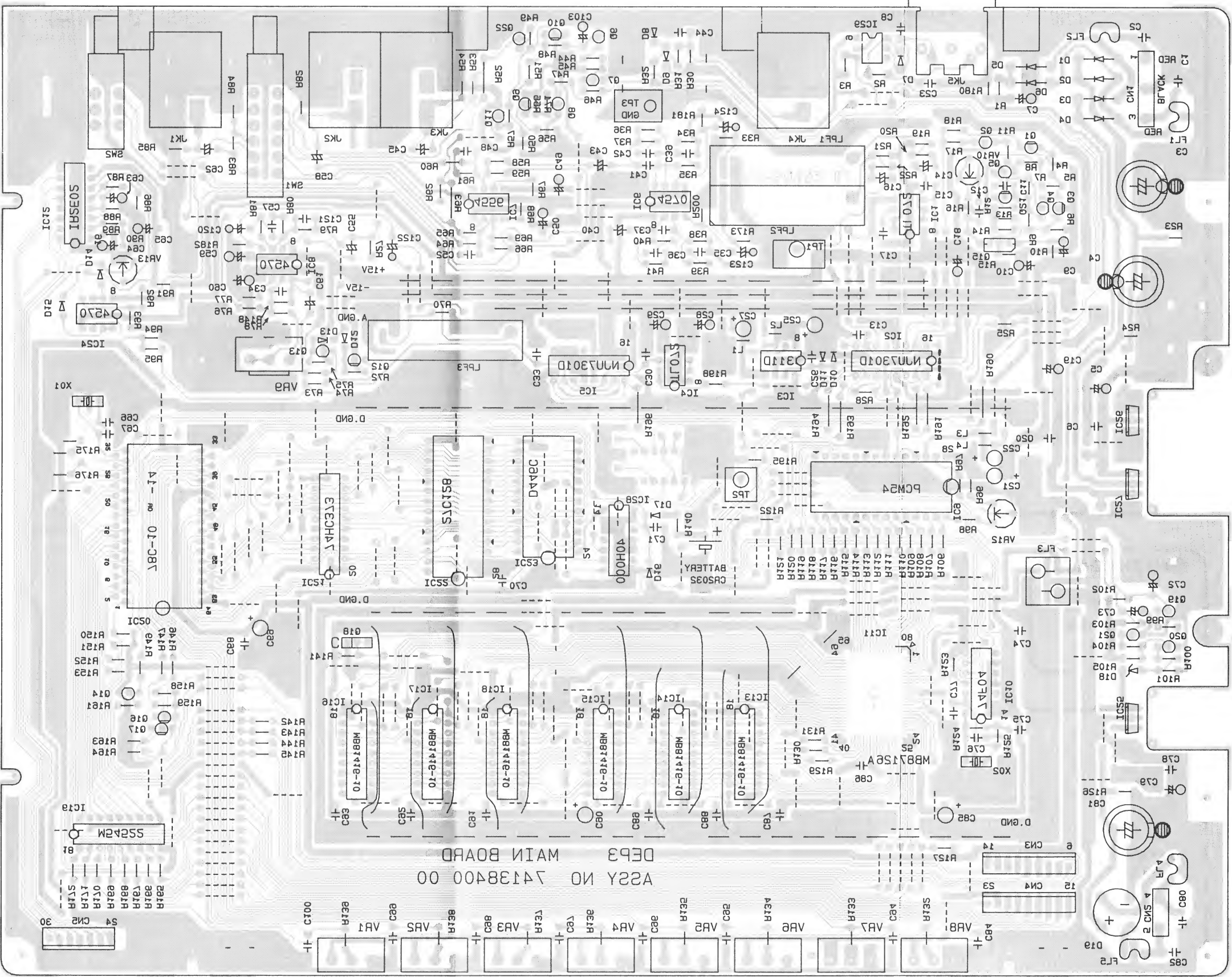
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MAIN BOARD
741384000

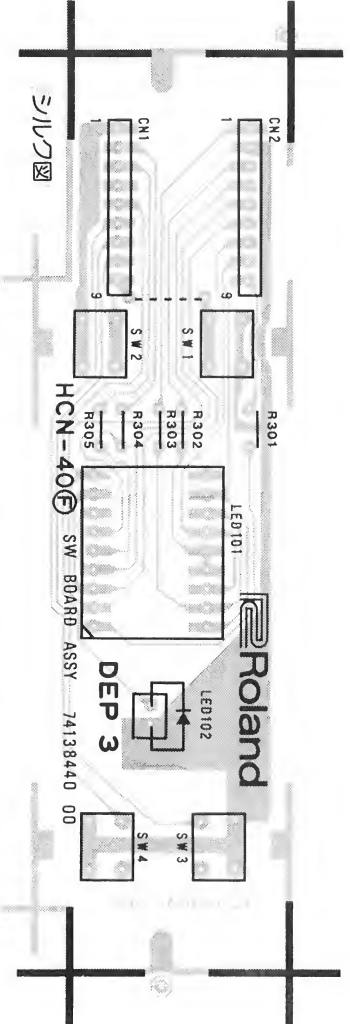
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

MAIN BOARD
7413840000
(pcb 2292040300)

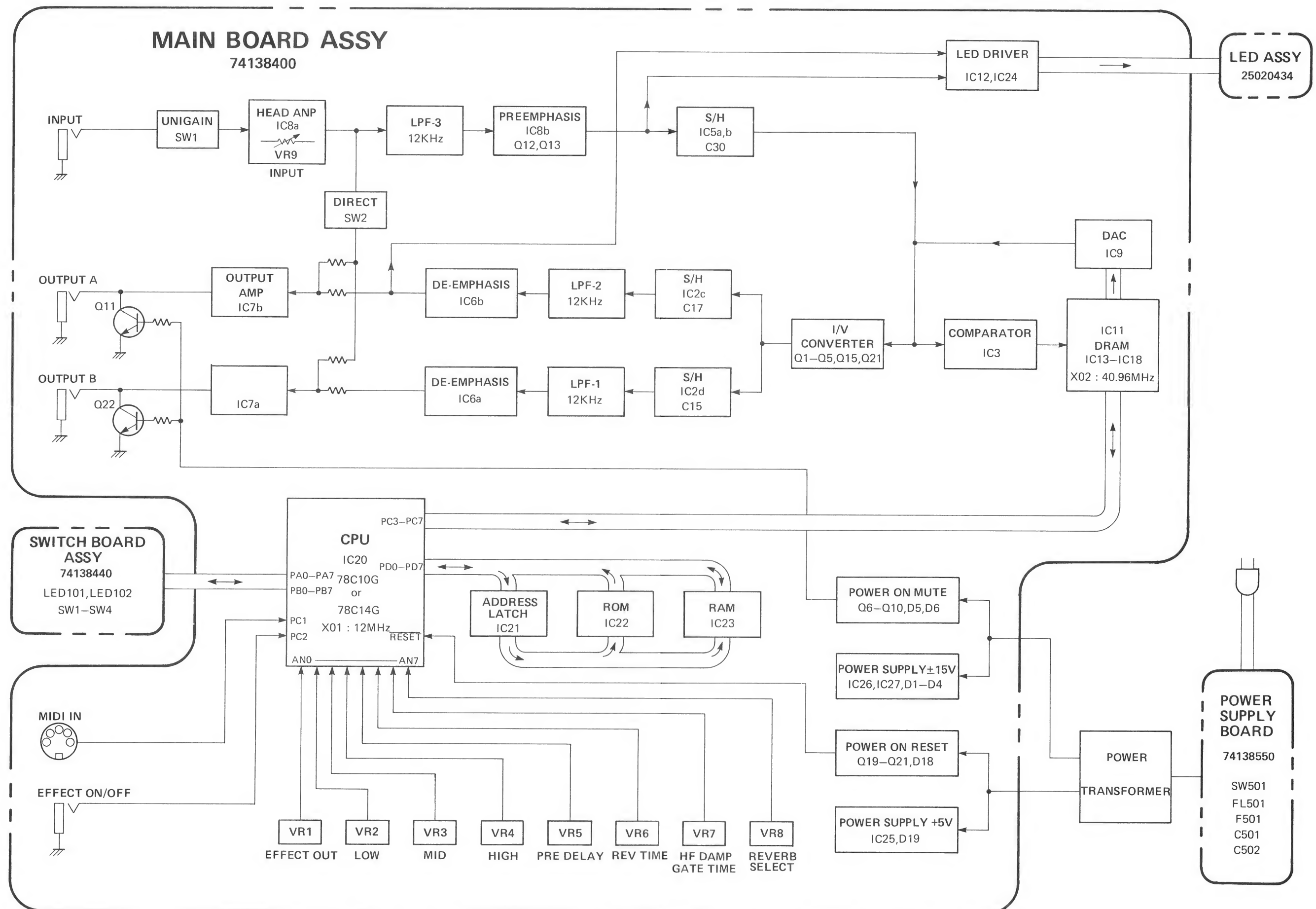
View from foil side



SWITCH BOARD
7413844000
(pcb 2292040400)



BLOCK DIAGRAM



LED ASSY
2502043400

Wiring diagram for LED ASSY 2502043400. The diagram shows a 7-pin connector on the left with pins numbered 1 through 7. The right side shows six LED outputs with their respective voltage levels:

- +12V (top LED)
- +9V (second LED)
- +6V (third LED)
- 0dB (fourth LED)
- 4V (fifth LED)
- 12V (bottom LED)

The connections are as follows:

- Pin 7 connects to the +12V LED.
- Pin 6 connects to the +9V LED.
- Pin 5 connects to the +6V LED.
- Pin 4 connects to the 0dB LED.
- Pin 3 connects to the -4V LED.
- Pin 2 connects to the -12V LED.
- Pin 1 is connected to ground.

The diagram shows a vacuum tube amplifier circuit. A 2SB594 tube is connected with its grid to a 4.7K resistor to the input (IN) and its cathode to a 4.7KB resistor to ground (GND). The plate is connected to a 4.7K resistor to the output (OUT) and a 220 resistor to ground. An MS336L diode is connected in parallel with the 220 resistor. A 10/16 battery is connected to the grid. The output is labeled OUT and the input is labeled IN. A GND symbol is at the bottom.

<p>To improve circuit performance the following PCBs are piggybacked on the Main Board as attaching components (factory production only). Effective SN is not fixed yet as date of this issue.</p>	<p>回路改善のため下記基板をメインボードの附属基板として搭載(工場生産品のみ) 実施製番は本サービスノート発行時点では未定。</p>
<p>Active Filter Board Replaces LPFs 1, 2 and 3, respectively.</p>	<p>Reulator Board Replaces IC26, regulator.</p>
<p>LPF1,2および3の置換</p>	<p>レギュレータIC26の置換</p>

M54522P
8-Unit 400mA Darlington Transistor Array
with Clamp Diode

Pin Configuration (Top View)

D_1	1	15	I_{R_2}
D_2	2	14	V_{REG}
D_3	3	13	AMP
D_4	4	12	-IN
D_5	5	11	+IN
D_6	6	10	V_{CC}
D_7	7	9	S_o
D_8	8		

Internal Block Diagram:

- V_{CC}**: Connected to pins 10 and 9.
- V_{REG}**: Connected to pin 14.
- GND**: Connected to pins 8 and 1.
- AMP**: Connected to pin 13.
- Current Sources A, B, C**: Represented by boxes in the center.
- Signal Detectors**: Represented by triangles below the current sources.
- Inputs**: +IN (pin 11) and -IN (pin 12) are connected to the input of the AMP.
- Outputs**: I_{R_1} (pin 15) and I_{R_2} (pin 14) are connected to the output of the AMP.
- Output S_o**: Connected to pin 9.

Note 1, 2

Top View

bit 1 (MSB)

NC

bit 3

bit 4

bit 5

bit 6

bit 7

bit 8

bit 9

bit 10

bit 11

bit 12

bit 13

bit 14

bit 15

bit 16

In

Voltage Output, Audio Output

F.B. resistor

Summing Point

GND

Current Output

Bipolar Offset

+Vcc

MSB Adj.

-Vcc

Vref

Upper 3 bits Current Source Switches

Lower 13 bits Ladder Resistor Network Current Source Switches

Vpot

Top View

IN1 16 IN2
D1 15 D2
S1 14 S2
V⁻ 13 V⁺ (SUBSTRATE)
GND 12 NC
S4 11 S3
D4 10 D3
IN4 9 IN3

IN	SW
L	ON
H	OFF

7413845100 100V
7413845300 117V
7413845400 220/240V

Top View

Pin 18

Pin 10

Pin 1

Pin 9

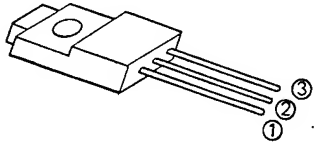
1. DIGIT 1 Cathode C
2. DIGIT 1 Cathode E
3. DIGIT 1 Cathode D
4. DIGIT 1 Common Anode
5. DIGIT 2 Common Anode
6. DIGIT 2 Cathode D
7. DIGIT 2 Cathode E
8. DIGIT 2 Cathode C
9. DIGIT 2 Cathode Dp
10. DIGIT 2 Cathode G
11. DIGIT 2 Cathode A
12. DIGIT 2 Cathode F
13. DIGIT 2 Cathode B
14. DIGIT 1 Cathode B
15. DIGIT 1 Cathode F
16. DIGIT 1 Cathode A
17. DIGIT 1 Cathode G
18. DIGIT 1 Cathode Dp

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CHECKING AND ADJUSTING

1. Voltages (Main Board)

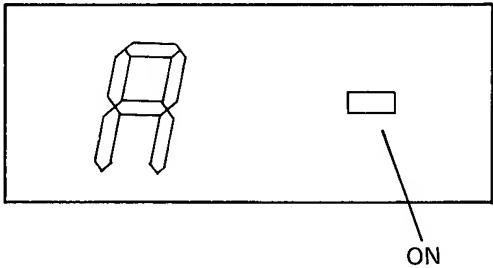
- 1-1. Battery
With power off verify more than +3V on D17 anode with respect to the digital ground (D).
- 1-2. DC Supplies
With power on verify the following voltages with respect to the respective ground.



IC25 pin 3 +4.8 to +5.2V
IC26 pin 3 +14.4 to +15.6V
IC27 pin 3 -15.6 to -14.4V

2. Test Mode

- The following checks and adjustments can be carried out in the test mode provided.
- 2-1. Entering Test Mode
While pressing MANUAL, turn the DEP-3 on. The display will show the test mode sign as shown below.



NOTES

- EFFECT Default setting is on in the test mode: MIDI CH Indicator will serve as EFFECT ON indicator. Effect is toggled by MANUAL.
- INPUT ATT Panel controls (VRs) other than INPUT (VR9) are defeated during the test mode.

3. DAC Level, Level LEDs (Main Board)

Setup (DEP-3)	DIRECTMIX UNIGAIN +4dBm
(Audio Generator) (Meter)	+4dBm, 1kHz, sine into INPUT Millivoltmeter into OUTPUT A

- 3-1. Press MANUAL, verify that MIDI CH indicator is off.
Adjust INPUT ATT for +4dBm reading on the millivoltmeter.

点検および調整

1. 電圧(メインボード)

- 1-1. バッテリー
電源オフの状態、D17カソード電圧を測定する。
3V以上であること。
- 1-2. DC電源
電源をオンにする。下記電源電圧を確認する。

2. テスト・モード

- 以下の調整、点検はテストモードに入ってから行なっ
て下さい。
- 2-1. テストモードへの入り方
MANUAL ボタンを押しながら電源を入れる。下
図のような表示が出る。

注

- エフェクト
テストモードにおける初期設定は“オン”の状態、
MIDI CH インジケータが点灯します。 MANUAL
ボタンによりオン／オフの切換が出来ます。
- INPUT ATT
INPUT 以外のパネル上のボリュームはテストモード
中無効です。

3. D/ALレベル、レベルLED(メインボード)

設定 (DEP-3)	DIRECT MIX UNIGAIN +4 dBm
(低周波発振器)	+4 dBm , 1 KHz , サイン INPUT ジャックへ (ミリボルトメータ) OUTPUT ジャックのAへ

- 3-1. MANUAL を押す。MIDI CHインジケータが消
灯する。
ミリボルトメータ の指示が+4 dBm になる様
INPUT アッテネータを調整する。

- 3-2. Set DIRECT to CANCEL.
Press MANUAL; verify that MIDI CH indicator is
on.
Adjust VR10 for +4dBm reading.
- 3-3. Shift millivoltmeter to OUTPUT B; verify +4dBm
reading.
- 3-4. Set DIRECT to MIX.
Press MANUAL; MIDI CH indicator will go off.
Adjust VR13 so that level LEDs -14dBm to 0dBm
are lit.
- 3-5. Set UNIGAIN to -20dBm; verify the all LEDs up
to +12dBm are lit.
- 3-6. Lower AG output level to -20dBm; verify that
LEDs +6dBm to +12dBm are off.

4. Dynamic Range (Main Board)

Setup (DEP-3)	DIRECTCANCEL UNIGAIN +4dBm
(Audio Generator)	-40dBm, 1kHz, sine into IN- PUT
(Distortion meter)	Into OUTPUT A through IHF-A filter

- 4-1. Adjust VR-12 for less than 5% distortion factor.

ERROR MESSAGES

CPU will display an error message should it detect a mal-
function during play mode.

Read Error Messages as follows:

- E1 Failure in writing into or reading from RAM, IC23
- E2 Failure in initializing digital signal processor IC11
- E3 Failure in transferring data to IC11 during the initialization
- E4 Failure in transferring data to IC11

- 3-2. DIRECT スイッチをCANCEL側に設定する。
MANUALを押す。MIDI CH インジケータが
点灯する。
ミリボルトメータの指示が+4 dBになる様VR10
を調整する。
- 3-3. ミリボルトメータをOUTPUT ジャックのBへ接
続する。指示が+4 dBmであることを確認。
- 3-4. DIRECT スイッチをMIX側に設定する。
MANUALを押す。MIDI CH が消灯する。
-14 dBmから0 dBmまでのLEDが点灯する
様VR13を調整する。
- 3-5. UNIGAIN を-20 dBm側に設定する。+12
dBm迄の全てのLEDが点灯することを確認。
- 3-6. 発振器の出力を-20 dBmに下げる。+6dBm
から+12 dBm迄のLED が消灯することを確認。

4. ダイナミックレンジ(メインボード)

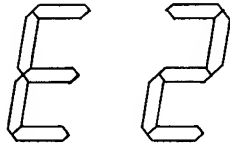
設定 (DEP-3)	DIRECT CANCEL UNIGAIN +4 dBm
(低周波発振器)	-40 dBm , 1 KHz , サイン INPUTジャックへ
(歪率計)	JIS-Aフィルタを介して OUTPUT Aジャックへ

- 4-1. 歪率が最少(5%以下)になる様VR12を調整
する。

エラーメッセージ

通常のプレイモード中に異常が発生した場合、症状によっ
てはエラーメッセージが表示されます。

Exp. 表示例



メッセージの内容は次の通りです。

- E1 RAM (IC23) に対しリード又はライト不成功
- E2 デジタル・シグナルプロセッサ(IC11)の初期
設定不成功
- E3 デジタル・シグナルプロセッサへデータの転送が
出来ない(初期設定時)
- E4 デジタル・シグナルプロセッサへデータの転送が
出来ない

MODEL DEP-3 MIDI Implementation Chart

Date : Jan. 05. 1987
Version : 1.0

Function.....		Transmitted	Recognized	Remarks
Basic Channel	Default	×	1 – 16	memorized
	Changed	×	1 – 16	
Mode	Default	×	1 , 3 OMNI ON/OFF	memorized
	Messages Altered	×		
Note Number	True voice	×	×	
		*****	×	
Velocity	Note ON	×	×	
	Note OFF	×	×	
After Touch	Key's	×	×	
	Ch's	×	×	
Pitch Bender		×	×	
Control Change		×	×	
Prog Change	True #	×	○ 0 – 127 ** 0 – 98	
System Exclusive		×	○	Parameters
System Common	Song Pos	×	×	
	Song Sel	×	×	
	Tune	×	×	
System Real Time	Clock	×	×	
	Commands	×	×	
Aux	Local ON/OFF	×	×	
Mes-sages	All Notes OFF	×	×	
	Active Sense	×	×	
	Reset	×	×	
Notes		** n : Program Change Number When $0 \leq n \leq 98$, it corresponds with Memory Number n + 1. When $n \geq 99$, it corresponds with Memory Number n – 98.		

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO ○ : Yes
Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF MONO × : No

1. RECOGNIZED RECEIVE DATA

Status	Second	Third	Description
1100 nnnn	0ppp pppp		Program Change ppppppp = 0 - 127
1011 nnnn	0111 1100	0000 0000	OMNI OFF
1011 nnnn	0111 1101	0000 0000	OMNI ON
1111 0000	1111 0111	System exclusive

2. RECOGNIZED EXCLUSIVE MESSAGE

Exclusive message is based on following structure

Byte	Description
a 1111 0000	Exclusive status
b 0100 0001	Roland ID #
c 0000 nnnn	Device-ID # = MIDI basic channel where nnnn + 1 = channel #
d 0001 0010	Model-ID # (DEP-3)
e 0001 0010	Command-ID # (DT1)
f 0aaa aaaa	Address MSB
g 0bbb bbbb	Address LSB
j 0ccc cccc	Data
k 0ddd dddd	Data
l 0eee eeee	Data
m 0fff ffff	Data
n 0ggg gggg	Data
o 0hhh hhhh	Data
p 0iii iiii	Data
q 0jjj jjjj	Data
r 0kkk kkkk	Checksum
s 1111 0111	End of System Exclusive

Notes :

*2-1 If aaaaaa - bbbbbb doesn't indicate the top address of the parameter, the message will be ignored.

*2-2 Summed value of the all bytes between Command-ID and EOX must be 00H (7 bits). It is not include Command-ID and EOX.

3. Address mapping of parameters

Address of parameter

0000 : Temporary parameter

0 : 00aa aaaa : EFFECT OUTPUT LEVEL
1 : 00bb bbbb : BOOST/CUT OF LOW FILTER
2 : 00cc cccc : BOOST/CUT OF MIDDLE FILTER
3 : 00dd dddd : BOOST/CUT OF HIGH FILTER
4 : 00ee eeee : PRE DELAY or DELAY TIME
5 : 00ff ffff : REVERB TIME or FEEDBACK OF DELAY
6 : 00gg gggg : HF DAMP or GATE TIME
7 : 00hh hhhh : REVERB SELECT

0080 : Memory number 1

0 : 00aa aaaa : EFFECT OUTPUT LEVEL
1 : 00bb bbbb : BOOST/CUT OF LOW FILTER
2 : 00cc cccc : BOOST/CUT OF MIDDLE FILTER
3 : 00dd dddd : BOOST/CUT OF HIGH FILTER
4 : 00ee eeee : PRE DELAY or DELAY TIME
5 : 00ff ffff : REVERB TIME or FEEDBACK OF DELAY
6 : 00gg gggg : HF DAMP or GATE TIME
7 : 00hh hhhh : REVERB SELECT

0100 : Memory number 2
:
7

0180 : Memory number 3
:
7

3180 : Memory number 99
:
7

Notes :

The actual values obtained on the DEP-3 differ from the values sent with MIDI (#0-#63).
From the Roland distributor in your country, you can attain the table that shows how the MIDI values correspond to the actual values on the DEP-3.